

B' an electrical isolation region disposed in the semiconductor substrate between the first region and the second region.

B² 12. (Amended) An ESD protection structure formed in a semiconductor material of a first conductivity type, the structure comprising:
a well region of a second conductivity type formed in the semiconductor material, the well region having a floating potential;
a first region of the first conductivity type formed in the well region;
a second region of the second conductivity type formed in the semiconductor material and spaced apart from the first region and the well; and
an electrical isolation region formed in the semiconductor material between the first region and the second region.

Please add the following new claims:

B³ --15. An ESD protection structure formed in a semiconductor material of a first conductivity type, the structure comprising:
an isolation region formed in the semiconductor material;
a first region of a second conductivity type formed in the semiconductor material, the first region having a dopant concentration;
a well region of the second conductivity type formed in the semiconductor material, the well region contacting the isolation region, being spaced apart from the first region, having a dopant concentration that is less than the dopant concentration of the first region, and not contacting a region of the second conductivity type that has a dopant concentration that is greater than the dopant concentration of the well region; and
a second region of the first conductivity type formed in the well region, the second region contacting the isolation region and having a dopant concentration.

SUB C1 16. The structure of claim 15 wherein the semiconductor material has a dopant concentration that is less than the dopant concentration of the second region.

09/747,848
AMENDMENT IN RESPONSE TO
(OFFICE ACTION DATED MAY 30, 2002)

PATENT

B3 Sub C: 7 17. The structure of claim 15 wherein the second region is connected to an electrical pad.

18. The structure of claim 17 wherein the first region is connected to ground.--
